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United States Department of Agriculture,

WASHINGTON, D. C., *March 31, 1917.*

MONTHLY LIST OF PUBLICATIONS.

[MARCH, 1917.]

READ CAREFULLY BEFORE ORDERING.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SPECIAL NOTICE.

Before mailing your request be sure and see that your name and complete post-office address (street number or rural route number as the case may be) is attached.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Breeds of Swine. By F. G. Ashbrook, Animal Husbandry Division. Pp. 16, figs. 12. Contribution from the Bureau of Animal Industry. March, 1917. **(Farmers' Bulletin 765.)**

Suitable for general distribution.

Turkey Raising. By Andrew S. Weiant, Animal Husbandry Division. Pp. 27, figs. 15. Contribution from the Bureau of Animal Industry. March, 1917. **(Farmers' Bulletin 791.)**

For general distribution.

Foxtail Millet, Its Culture and Utilization in the United States. By H. N. Vinall, Agronomist, Office of Forage-Crop Investigations. Pp. 28, figs. 10. Contribution from the Bureau of Plant Industry. March, 1917. **(Farmers' Bulletin 793.)**

Suitable for general distribution.

The Domesticated Silver Fox. By Ned Dearborn, Assistant Biologist. Pp. 32, figs. 27. Contribution from the Bureau of Biological Survey. March, 1917. **(Farmers' Bulletin 795.)**

This bulletin, based on Department Bulletin No. 301, "Silver Fox Farming in Eastern North America" (1915), has been prepared to supersede Farmers' Bulletin No. 328, "Silver Fox Farming" (1908).

How to Select Foods. I. What the Body Needs. By Caroline L. Hunt and Helen W. Atwater, Scientific Assistants, Office of Home Economics. Pp. 14, fig. 1. Contribution from the States Relations Service. March, 1917. **(Farmers' Bulletin 808.)**

Gives a simple method of selecting and combining food materials to provide an adequate, attractive, and economical diet.

The Small Vegetable Garden: Suggestions for Utilizing Limited Areas. Pp. 44, figs. 22. Prepared under the direction of the Bureau of Plant Industry. April, 1917. **(Farmers' Bulletin 818.)**

Contains specific suggestions for planning an intensive garden enterprise when a small space only is available. For general distribution.

DEPARTMENT BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Highway Bonds: A Compilation of Data and an Analysis of Economic Features Affecting Construction and Maintenance of Highways Financed by Bond Issues, and the Theory of Highway Bond Calculations. By Laurence I. Hewes, Chief, Economics and Maintenance, and James W. Glover, Professor of Mathematics and Insurance, University of Michigan, Collaborator, Office of Public Roads. Pp. 78, pls. 9. Contribution from the Office of Public Roads and Rural Engineering. Revised Mar. 6, 1917. **(Department Bulletin 136.)** Price, 25 cents.

Lumbering in the Sugar and Yellow Pine Region of California. By Swift Berry, Forest Examiner. Pp. 99, pls. 13, figs. 2. Contribution from the Forest Service. (Professional Paper) Mar. 8, 1917. **(Department Bulletin 440.)** Price, 25 cents.

A description of methods of logging and manufacture and a statement of the general cost of lumbering in said region.

Handling and Marketing Durango Cotton in the Imperial Valley. By J. G. Martin, Investigator in Cotton Marketing, and G. C. White, Specialist in Transportation. Pp. 22, figs. 6. Contribution from the Office of Markets and Rural Organization. Mar. 31, 1917. **(Department Bulletin 458.)** Price, 5 cents.

Should be of interest to farmers of the Imperial Valley and others located in sections where staple cotton is grown, and to cotton buyers generally.

A Study of Cotton Market Conditions in North Carolina With a View to Their Improvement. By O. J. McConnell, Assistant in Cotton Marketing, Office of Markets and Rural Organization, and W. R. Camp, Chief, North Carolina Division of Markets. Pp. 19, fig. 1. Contribution from the Office of Markets and Rural Organization. Mar. 20, 1917. **(Department Bulletin 476.)** Price, 5 cents.

Of interest to cotton producers in North Carolina.

Sugar-Cane Culture for Sirup Production in the United States. By P. A. Yoder, Sugar-Cane Technologist, Office of Sugar-Beet Investigations. Pp. 46, figs. 19. Contribution from the Bureau of Plant Industry. Mar. 19, 1917. **(Department Bulletin 486.)** Price, 10 cents.

A description of the practices in vogue at the present time in the growing and handling of sugar cane where sirup is the main product.

A Study of American Beers and Ales. By L. M. Tolman, Chief, Central Inspection District, and J. Garfield Riley, Assistant Chemist, Food and Drug Inspection Laboratory, New York, N. Y. Pp. 23. Contribution from the Bureau of Chemistry. (Professional Paper.) Mar. 21, 1917. **(Department Bulletin 493.)** Price, 5 cents.

A technical study of this subject and of interest to brewers generally

The Cost of Producing Apples in Western Colorado. By S. M. Thomson, Scientific Assistant, and G. H. Miller, Assistant Agriculturist. Pp. 44, pls. 2, figs. 10. Contribution from the Office of Farm Management. Mar. 14, 1917. **(Department Bulletin 500.)** Price, 10 cents.

A detailed study, made in 1914–15, of the current cost factors involved in the maintenance of orchards and the handling of the crop on 125 farms in the fruit region of Mesa, Delta, and Montrose Counties.

Turnips, Beets, and Other Succulent Roots, and Their Use as Food. By C. F. Langworthy, Chief, Office of Home Economics. Pp. 19, figs. 4. Contribution from the States Relations Service. (Professional Paper.) Mar. 6, 1917. **(Department Bulletin 503.)** Price, 5 cents.

Is of special interest to housekeepers and to home economics extension workers, teachers, and students. It summarizes data regarding the nature, uses, and food value of succulent roots.

Studies on the Digestibility of Some Animal Fats. By C. F. Langworthy, Chief, and A. D. Holmes, Scientific Assistant, Office of Home Economics. Pp. 20. Contribution from the States Relations Service. (Professional Paper.) Mar. 24, 1917. **(Department Bulletin 507.)** Price, 5 cents.

This bulletin records studies of the digestibility of chicken fat, goose fat, brisket fat, cream fat in egg yolk, and fat or oil in fish. It is primarily of interest to students and investigators of food problems.

Yields from the Destructive Distillation of Certain Hardwoods. Second Progress Report. By R. C. Palmer, Chemist in Forest Products. Pp. 8, figs. 2. Contribution from the Forest Service. (Professional Paper.) Mar. 6, 1917. **(Department Bulletin 508.)** Price, 5 cents.

Gives the results of experiments in destructive distillation of hardwoods and is of interest to manufacturers of by-products.

The Theory of Drying and Its Application to the New Humidity-Regulated and Recirculating Dry Kiln. By Harry D. Tiemann, In Charge, Section of Timber Physics, Forest Products Laboratory. Pp. 28, figs. 3. Contribution from the Forest Service. (Professional Paper.) Mar. 17, 1917. **(Department Bulletin 509.)** Price, 5 cents.

A technical discussion of a new method of kiln drying hardwood lumber and of interest to manufacturers of lumber products.

Farm Practice in the Cultivation of Cotton. By H. R. Cates, Scientific Assistant, Office of Forage Crop Investigations. Pp. 62, figs. 20. Contribution from the Bureau of Plant Industry and the Office of Farm Management. (Professional Paper.) Mar. 31, 1917. **(Department Bulletin 511.)** Price, 10 cents.

The data presented in this bulletin represent the first step in a comprehensive study of farm tillage practice in the cultivation of cotton. Should be of value to all cotton growers.

Fumigation of Ornamental Greenhouse Plants with Hydrocyanic-Acid Gas. By E. R. Sasscer, Collaborator, and A. D. Borden, Scientific Assistant. Pp. 20, figs. 3. Contribution from the Bureau of Entomology. Mar. 10, 1917. **(Department Bulletin 513.)** Price, 5 cents.

Of interest to owners of greenhouses.

The Cost of Producing Apples in the Hood River Valley. By S. M. Thomson, Scientific Assistant, and G. H. Miller, Assistant Agriculturist. Pp. 52, pls. 4, figs. 14. Contribution from the Office of Farm Management. Mar. 17, 1917. **(Department Bulletin 518.)** Price, 15 cents.

A detailed study, made in 1915, of the current cost factors involved in the maintenance of orchards and the handling of the crop on 54 farms.

Courses in Secondary Agriculture for Southern Schools. (First and Second Years.) By H. P. Barrows, Specialist in Agricultural Education. Pp. 53. Contribution from the States Relations Service. (Professional Paper.) Mar. 30, 1917. **(Department Bulletin 521.)** Price, 10 cents.

For use of teachers only.

Extension of Cotton Production in California. By O. F. Cook, Bionomist. Pp. 16. Contribution from the Bureau of Plant Industry. Mar. 3, 1917. **(Department Bulletin 533.)** Price, 5 cents.

Of interest to growers and prospective growers of cotton in the state.

MISCELLANEOUS.

Some Profitable and Unprofitable Coffee Lands. By T. B. McClelland, Assistant Horticulturist. Pp. 13, pls. 2, figs. 5. Mar. 13, 1917. **(Bulletin 21, Porto Rico Agricultural Experiment Station.)** Price, 5 cents.

A Lister Attachment for a Cotton Planter. By Stephen H. Hastings, Superintendent, Cooperative Testing Station, Sacaton, Arizona. Pp. 3, fig. 1. Mar. 27, 1917 **(Doc. 2. Crop Physiology and Breeding Investigations, Bureau of Plant Industry.)**

Of interest to cotton growers in the arid sections.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 8, No. 10, Mar. 6, 1917. Contents: The Relative Influence of Microorganisms and Plant Enzyms on the Fermentation of Corn Silage. (hh Iowa–4.) By A. R. Lamb.—Little-Leaf of the Vine. (hj Cal–9.) By Frederic T. Bioletti and Leon Bonnet. Pp. 361–398, pls. 4, figs. 17. Price, 15 cents.

Same, Vol. 8, No. 11, Mar. 12, 1917. Contents: Spore-Forming Bacteria of the Apiary. (hk K–51.) By Arthur H. McCray.—Fusarium-Blight, or Wilt Disease, of the Soybean. (hl N. C.–4.) By Richard O. Cromwell. Pp. 399–440, pls. 3, figs. 7. Price, 15 cents.

Journal of Agricultural Research. (For sale only.) Vol. 8, No. 12. Mar. 19, 1917. Contents: Peanut-Wilt Caused by Sclerotium Rolfsii. (hn Va–2.) By J. A. McClintock—Transformation of Pseudoglobulin into Euglobulin. (hq A–28.) By W. N. Berg.—Dissemination of the Angular Leafspot of Cotton. (ho S. C.–1.) By R. C. Faulwetter. Pp. 441–475, pls. 2, fig. 1. Price, 15 cents.

☞NOTE.—Beginning with Volume 5, The Journal of Agricultural Research has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being $3 per year, 52 numbers.

Experiment Station Record. Vol. XXXVI, No. 2, February, 1917. E. W. Allen, Ph. D., Editor. Pp. 101–200. Price, 15 cents.

Same, Vol. XXXVI, No. 3. Abstract Number. Pp. 201–300. Mar. 24, 1917. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 3, No. 3, March, 1917. Pp. 21–28. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 118. February, 1917. Pp. 21–27. Mar. 22, 1917. Price, 5 cents.

Bureau of Chemistry. No. 19. Pp. 49–54. Mar. 12, 1917. Price, 5 cents.

Bureau of Chemistry. Supplement No. 22. [N. J. 4551–4600.] Pp. 75–144. Mar. 15, 1917. Price, 10 cents.

Federal Horticultural Board. No. 36. January, 1917. Pp. 6. Mar. 1, 1917. Price, 5 cents.

Federal Horticultural Board. No. 37. February, 1917. Pp. 7–14. Mar. 26, 1917. Price, 5 cents.

Office of Markets and Rural Organization. No. 21. Pp. 7. Mar. 28, 1917. Price, 5 cents.

Office of Markets and Rural Organization. No. 22. Official Grain Standards of the United States for Wheat. Pp. 29. Mar. 31, 1917. Price, 5 cents.

SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Latah County, Idaho. By J. H. Agee, of the U. S. Department of Agriculture, and George W. Graves and C. B. Mickelwaite, of the University of Idaho. Pp. 24, pls. 3, figs. 2, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Wells County, Indiana. By W. E. Tharp, of the U. S. Department of Agriculture and W. E. Wiley, of the Indiana Department of Geology. Pp. 29, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Van Buren County, Iowa. By Clarence Lounsbury, of the U. S. Department of Agriculture, and H. W. Reid, of the Iowa Agricultural Experiment Station. Pp. 32, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Washington County, Nebraska. By L. Vincent Davis, of the U. S. Department of Agriculture, and H. C. Mortlock, of the Nebraska Soil Survey. Pp. 38, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Davidson County, North Carolina. By R. B. Hardison, of the U. S. Department of Agriculture, and L. L. Brinkley, of the North Carolina Department of Agriculture. Pp. 39, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

A Soil Survey of Blair County, Pennsylvania. By J. O. Veatch, of the U. S. Department of Agriculture, and Harry P. Young and H. P. Cooper, of the Pennsylvania State College. Pp. 48, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Lewis and Gilmer Counties, West Virginia. By W. J. Latimer. Pp. 34, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

SEPARATES.

The Plant-Introduction Gardens of the Department of Agriculture. By P. H. Dorsett, Plant Introducer, Office of Foreign Seed and Plant Introduction, Bureau of Plant Industry. Pp. 10, pls. 10. **(Separate 687, Yearbook, 1916.)** Price, 5 cents.

Opening Up the National Forests by Road Building. By O. C. Merrill, Chief Engineer, Forest Service. Pp. 9, pls. 3. **(Separate 696, Yearbook, 1916.)** Price, 5 cents.

Possibilities of a Market Train Service. By G. C. White and T. F. Powell, Office of Markets and Rural Organization. Pp. 11. **(Separate 701, Yearbook, 1916.)** Price, 5 cents.

Pumping for Irrigation on the Farm. By P. E. Fuller, Irrigation Engineer, Office of Public Roads and Rural Engineering. Pp. 14, pl. 1. **(Separate 703, Yearbook, 1916.)** Price, 5 cents.

The Practical Use of the Insect Enemies of Injurious Insects. By L. O. Howard, Entomologist and Chief, Bureau of Entomology. Pp. 16, figs. 8. **(Separate 704, Yearbook, 1916.)** Price, 5 cents.

Suppression of the Gipsy and Brown-Tail Moths and Its Value to States Not Infested. By A. F. Burgess, In Charge of Gipsy and Brown-Tail Moth Investigations, Bureau of Entomology. Pp. 10, pls. 7. **(Separate 706, Yearbook, 1916.)** Price, 5 cents.

An Experiment in Community Dairying. By R. R. Welch, Dairy Division, Bureau of Animal Industry. Pp. 8, pl. 1, fig. 1. **(Separate 707, Yearbook, 1916.)** Price, 5 cents.

Destroying Rodent Pests on the Farm. By David E. Lantz, Assistant Biologist, Bureau of Biological Survey. Pp. 18, pls. 5, fig. 1. **(Separate 708, Yearbook, 1916.)** Price, 5 cents.

Progress in Handling the Wool Clips: Development in the West. By F. R. Marshall, Animal Husbandry Division, Bureau of Animal Industry. Pp. 10, pls. 4, fig. 1. **(Separate 709, Yearbook, 1916.)** Price, 5 cents.

The Effect of Home Demonstration Work on the Community and the County in the South. By Bradford Knapp, Chief, and Mary E. Creswell, Assistant in Charge of Home Demonstration Work, States Relations Service. Pp. 16, pls. 3. **(Separate 710, 1916.)** Price, 5 cents.

Cooperative Work for Eradicating Citrus Canker. By Karl F. Kellerman, Associate Chief, Bureau of Plant Industry. Pp. 6, pls. 4. **(Separate 711, Yearbook, 1916.)** Price, 5 cents.

A Graphic Summary of World Agriculture. By V. C. Finch, O. E. Baker, and R. G. Hainsworth, Office of Farm Management. 5 p. text, 19 p. graphs. **(Separate 713, Yearbook, 1916.)** Price, 15 cents.

The Meat Inspection Service of the United States Department of Agriculture. By George Ditewig, Bureau of Animal Industry. Pp. 21, pls. 11, figs. 5. **(Separate 714, Yearbook, 1916.)** Price, 15 cents.

Importance of Developing our Natural Resources of Potash. By Frederick W. Brown, Assistant in Charge Investigations of Fertilizer Resources, Bureau of Soils. Pp. 10, pl. 1. **(Separate 717, Yearbook, 1916.)** Price, 5 cents.

Statistics of Grain Crops, 1916. Pp. 50. **(Separate 719, Yearbook, 1916.)** Price, 10 cents.

Statistics of Crops Other than Grain Crops. Pp. 47. **(Separate 720, Yearbook, 1916.)** Price, 10 cents.

Live Stock, 1916, and Miscellaneous Data. Pp. 47. **(Separate 721, Yearbook, 1916.)** Price, 10 cents.

Imports and Exports of Agricultural Products. Pp. 37. **(Separate 722, Yearbook, 1916.)** Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 44, No. 12, December, 1917. [Feb. 28, 1917.] Pp. 671–712, charts 11, figs. 8. Price, 25 cents per copy, $2.50 per year.

Special Articles: Current evaporation observations by the Weather Bureau. By B. C. Kadel and C. Abbe, jr.—Slope and valley air temperatures. By W. R. Blair.—Low pressure at Paris, November 18, 1916. By A. Angot.—Thunder and hail in the Paris region. By A. Angot.—On the kinetic theory of evaporation. By A. March.—Temperature of the ocean below the 500-fathom line on the west coast of America. By A. H. Clark.—Surface currents of Jupiter during 1915–1916. By S. Bolton.

National Weather and Crop Bulletin, No. 2, February, 1917, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

Snow and Ice Bulletins for Feb. 6, 13, 20, 27, 1917. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief, Division of Publications.

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1917

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